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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/419,968	10/18/1999	SANDIP SARKAR	PA990566	2151

23696 7590 01/29/2004

Qualcomm Incorporated
Patents Department
5775 Morehouse Drive
San Diego, CA 92121-1714

EXAMINER

SONG, HOSUK

ART UNIT	PAPER NUMBER
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2135

DATE MAILED: 01/29/2004

16

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/419,968

Applicant(s)

SARKAR, SANDIP

Examiner

Hosuk Song

Art Unit

2135

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 03 November 2003.
- 2a) ☒ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) ~~1-33~~ 6-8, 10-12 is/are pending in the application.
- 4a) Of the above claim(s) 1-5, 9 and 13-33 is/are ~~withdrawn from consideration~~ canceled.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 6-8, 10-12 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

1. Claims 6,10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Saints(US 6,430,170) in view of Waldroup(US 6,070,058).

Claim 6: Saints discloses a random selector subsystem for generating random numbers from adjusted data bits in (fig.4 and col.4,lines 29-31). Saints does not disclose adjusted data bits are generated from AGC circuit operating on a received signal. Waldroup's patent discloses adjusted data bits are generated from AGC circuit operating on a received signal in (col.9,lines 12-23). It would have been obvious to person of ordinary skill in the art at the time invention was made to employ AGC to generate adjusted data bits on a received signal as taught in Waldroup with random number generating system disclosed in Saints in order to control such amplitude variations such that wireless device keeps-in band energy is transmitted to demodulator at a fixed level thus allowing incoming received signal to be normalized. Saints discloses an encryptor for encrypting a signal using random numbers in(col.4,lines 23-36).

Claim 10: Saints discloses a random selector subsystem for generating random numbers from adjusted data bits in (fig.4 and col.4,lines 29-31). Saints does not disclose adjusted data bits are generated from AGC circuit operating on a received signal. Waldroup's patent discloses adjusted data bits are generated from AGC circuit operating on a received signal in (col.9,lines 12-23). It would have been obvious to person of ordinary skill in the art at the time invention was made to employ AGC to generate adjusted data bits on a received signal as taught in Waldroup with random number generating system disclosed in Saints in order to control such amplitude variations such that wireless device keeps-in band energy is transmitted

to demodulator at a fixed level thus allowing incoming received signal to be normalized. Saints does not disclose extracting random data bits from an AGC. Examiner takes Official notice that extracting random data bits from AGC is well known in the art. One of ordinary skill in the art would have been motivated to extract random data bits from an AGC because since one of the functions of AGC is to normalize the incoming signal and gain of the variable gain amp varies continuously it would be desirable to extract random variable from the AGC.

2. Claims 7,11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Saints(US 6,430,170) in view of Lee et al(US 6,038,266).

Claim 7: Saints disclose Saints a random number selector subsystem for generating random numbers in (col.4,lines 29-31). Saints does not disclose instantaneous variations of the DC offset component signal where variations are generated from DC Offset Correction Loop operating on a received signal. Lee's patent discloses this features in (col.10,lines 53-55). It would have been obvious to person of ordinary skill in the art at the time invention was made to employ DC Offset correction loop circuit as taught in Lee with device disclosed in Saints in order to prevent instability of signal as well as to correct DC offset. Saints discloses an encryptor for encrypting a signal using random numbers in(col.4,lines 23-36).

Claim 11: Saints discloses generating random data bits in wireless device in(col.4,lines 30-36 and fig.1). Saints does not disclose processing received signal with a DC Offset Correction Loop. Lee discloses DC Offset correction circuit in (col.10,lines 53-55). It would have been obvious to person of ordinary skill in the art at the time invention was made to employ DC Offset correction circuit taught in Lee with device disclosed in Saints in order to prevent instability of signal as well as to correct DC offset. Saints and Lee does not specifically disclose extracting random data bits from a DC Offset Correction Loop. The examiner takes Official notice that extracting random data bits from a DC Offset Correction Loop is well known in the

art. One of ordinary skill in the art would have been motivated to extract random data bits from a DC Offset Correction Loop because of continuous variation of DC offset.

3. Claims 8,12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Saints(US 6,430,170) in view of Official Notice.

Claims 8,12: Saints discloses a random number selector subsystem for generating random numbers in (col.4,lines 29-31). Saints discloses an encryptor for encrypting a signal using random numbers in(col.4,lines 23-36). Saints does not disclose CDMA Time Tracking Loop circuit is operating to track variations in the receive signal propagation delay over time. Examiner takes Official notice that this is well known in the art especially in the wireless communication environment. One of ordinary skill in the art would have been motivated to use Time Tracking Loop in order to track variations in the receive propagation delay over time and thus maintaining bits synchronization. Further, extracting random bits from a Time Tracking Loop is well known in the art. One of ordinary skill in the art would have been motivated to use extract random bits from a Time Tracking Loop because propagation path delay varies randomly it would be desirable to extract random variable from TTL.

Response to Amendment

4. Claims 1-5,9,13-33 have been cancelled.

Applicant's amendment necessitated new grounds of rejection. See above.

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO**


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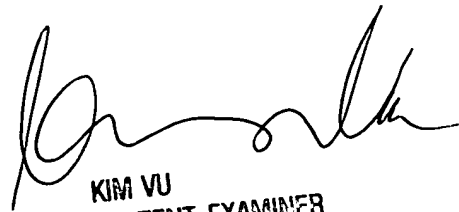
MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hosuk Song whose telephone number is 703-305-0042. The examiner can normally be reached on Tue-Fri from 5:30 am- 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on 703-305-4393. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.


HS


KIM VU
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100